SHINGLE HOMES

OF EXTERIOR *Charm* AND LASTING *Beauty*

GEORGE WELLINGTON STODDARD, Architect

SOME THINGS TO KNOW

What nails should be used for laying Red Cedar Shingles?

Use a rust-resistant nail such as a hot-dipped, zinc-coated nail. Use only two nails to a shingle regardless of width. Nails should be put approximately 1½ inches and not over 2 inches under the next over-lapping course and about ¾ inch in from each edge of the shingle. In double-coursing on side-walls the nails can be exposed.

How should Red Cedar Shingles be spaced?

Each shingle should be spaced ¼ inch apart on roof to allow for expansion. On side-walls, shingles should be nailed close together. See Figure A.

What about exposure-to-weather?

"Exposure-to-weather" means that part of a Cedar Shingle which is not covered up. In applying Cedar shingles on side-walls, exposure-to-weather can be greater than on the roof; for double-coursing side-walls, this exposure-to-weather may be greater yet. On the roof, exposure-to-weather is determined largely by the pitch of the roof and the thickness and length of the shingles. The contractor or roofer understands this. See Figure B.

What about valleys and flashings?

Too great an emphasis cannot be placed on the vital need of using good wide material for valleys and flashings because this is where 75% of the roof leaks occur. Figure C shows how to properly place chimney flashings to prevent leakage.

What should the name "Certigrade" mean to you?

The Certigrade label is your guaranty of grade and quality. It means that Certigrade Cedar Shingles have been officially inspected and approved by the Red Cedar Shingle Bureau for both grade and quality.

FACTS TO REMEMBER

That wood shingles are the only roof covering that actually adds materially to the strength of the building.

That to pull a properly nailed Red Cedar Shingle of average width from a roof requires a force of about 85 pounds.

That the insulating value of Red Cedar Shingles exceeds that of any other roofing material.

That over-roofing a Red Cedar Shingle roof with Red Cedar Shingles doubles the insulating value.

That roofing over any other material with Red Cedar Shingles may increase the insulating value several times.

That Red Cedar Shingles "fit" architecturally no matter what type of home you intend building.

That the extra course in double-coursing side-walls adds no extra cost, but does increase the strength and insulation.

That the per-square cost per year of a Red Cedar Shingle roof during its life is less than that of any other roofing material.

CERTIGRADE
Red Cedar
SHINGLES
ON ALL GRADES
A LABEL SIMILAR TO THIS, DESIGNATING GRADE AS NO. 1, NO. 2 OR NO. 3, IS ATTACHED TO ALL CERTIGRADE SHINGLES
Inspected by
RED CEDAR SHINGLE BUREAU

THE CERTIGRADE LABEL

This label identifies the three grades of Certigrade Red Cedar Shingles as follows:

No. 1 GRADE —the **BLUE** label

No. 2 GRADE —the **RED** label

No. 3 GRADE —the **BLACK** label

A recent issue of the magazine, Better Homes & Gardens made this statement:

"When you need a new roof you may learn that a guaranty is no better than the firm which makes it . . . the only way to get roof guaranty is to employ a responsible firm . . . be certain that your contractor is no wandering mechanic, that he has liability insurance and pays his bills . . . read before you sign."

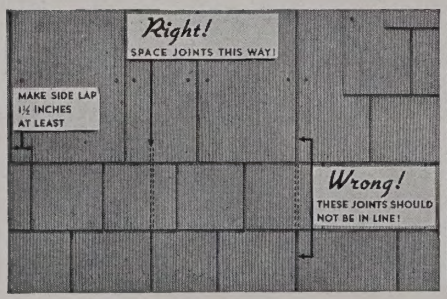


FIG. A. *The correct side lap and proper breaking of joints is important, but easily accomplished.*

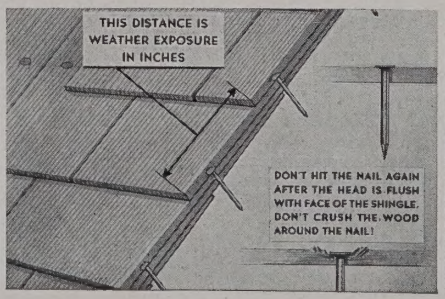

THIS DISTANCE IS WEATHER EXPOSURE IN INCHES
DON'T HIT THE NAIL AGAIN AFTER THE HEAD IS FLUSH WITH FACE OF THE SHINGLE. DON'T CRUSH THE WOOD AROUND THE NAIL!

FIG. B. *Nails should never be more than two inches above the butt-line of the next course.*

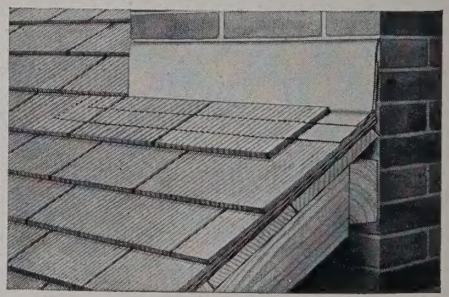


FIG. C. *Flashings at chimneys and brick walls must be carefully placed to prevent leakage.*

THE IMPROVEMENT of living conditions and the creation of new conveniences and comforts are foremost in the thoughts of home builders these days and, it is a fact that the creation of home comforts has never ceased so that each new decade provides us with new facilities for better living ★ It is interesting to note that in the face of such changes and advancements some fundamental construction materials have so proven their superiority that they have never been superseded. Among such materials are Red Cedar Shingles, which throughout the ages have given maximum protection from weather as an exterior building material for roofs and sidewalls ★ The desirable qualities of Red Cedar Shingles in home building are the main objective of this booklet, which presents interesting pictures of undoubted value to prospective home builders.

RED CEDAR SHINGLE BUREAU

SEATTLE 1, WASH., U. S. A. . . . VANCOUVER, B. C., CANADA

Photo by Harold Orne

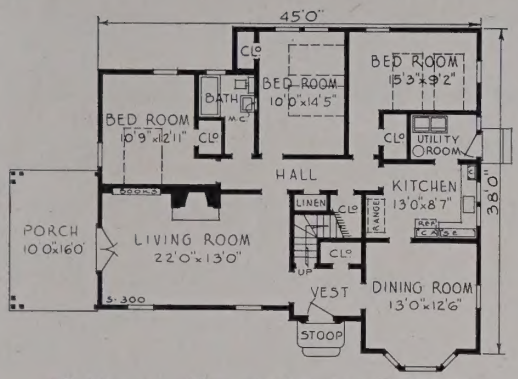
An official of the Mt. Washington Railway Company writes: "The Observatory buildings are shingled on the exterior sides and roof with Red Cedar Shingles . . . The New England hurricane left the buildings at the summit unscathed despite a recorded five-minute average of 165 miles per hour of wind and an estimated gusty wind in excess of 200 miles per hour."

EVERY CEDAR SHINGLE ROOF COMBINES STRENGTH WITH A MINIMUM OF WEIGHT

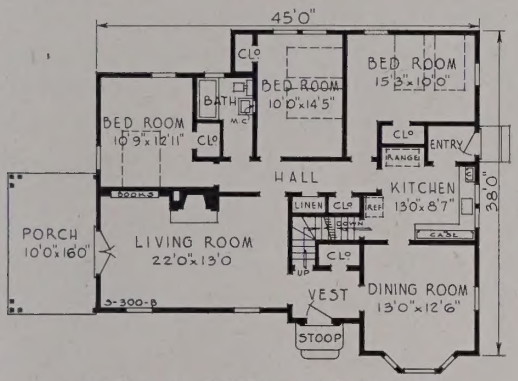
RED CEDAR SHINGLES are light in weight, but the method of laying one shingle over another in three laps and nailing in place creates a "bridging" effect, affording a maximum resistance to high wind, hail stones, falling chimneys, and heavy snow.

A recent crushing test conducted by the College of Forestry, University of Washington, showed the following remarkable results:

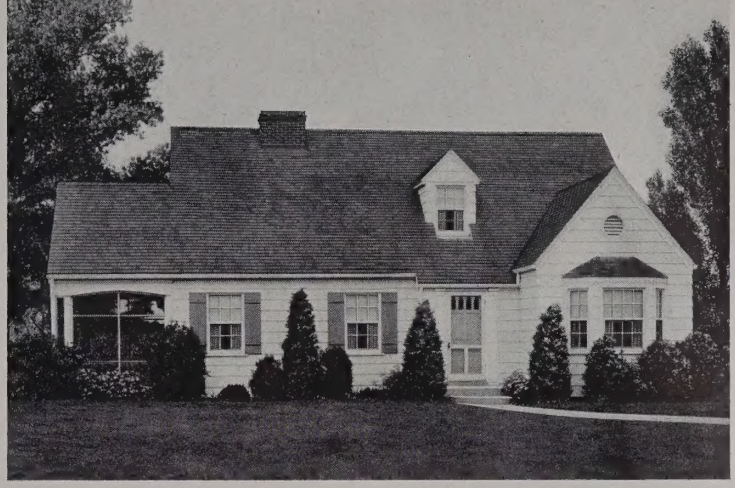
"A No. 1 16-inch Certigrade Cedar Shingle roof, laid five inches to the weather, was exposed to successive blows of a mechanical hammer weighing 7.33 pounds. These blows were increased a one-half foot at a time. At 66 foot-pounds (the capacity of the testing machine) there was NO discernible damage to the roof section. However, this same test applied to two non-wood types in general use, punched through —the one at 18.3 foot-pounds, the other at 29.3 foot-pounds."



PLAN A—WITHOUT BASEMENT



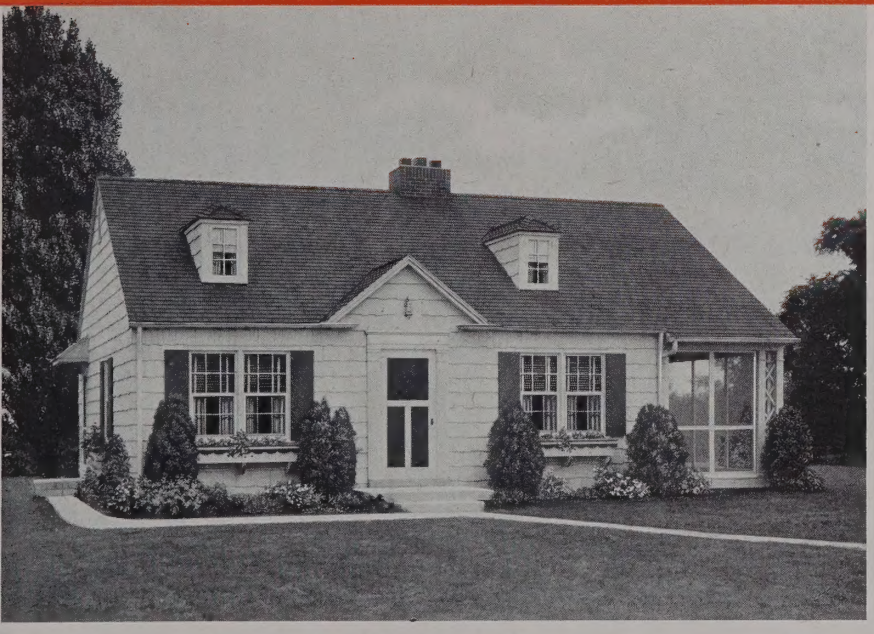
PLAN B—WITH BASEMENT



S—300 SIX ROOMS AND BATH

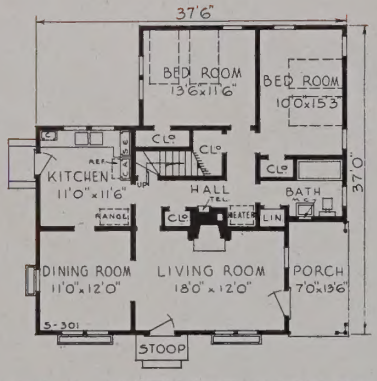
In simplicity of line and form lies often the greatest of beauty; the effective simplicity of this home is at once noted. The doorway treatment is in evident good taste, the areas of contrast are well chosen. Do not overlook the large well placed rooms and interior conveniences.

BLUEPRINT PLANS for any of the designs illustrated in this book may be obtained through local retail lumber dealers from National Plan Service, Inc.

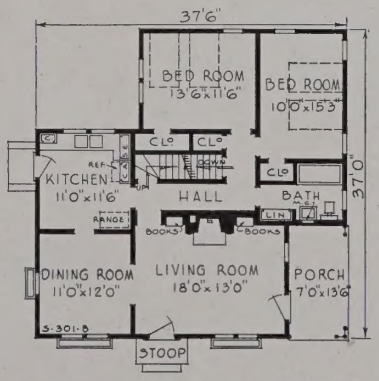


S—301 FIVE ROOMS AND BATH

A home that wears well ever will be popular, because it owes its beauty to good proportions, stability of construction and harmony of detail. The interior was planned to insure happy, contented comfort, convenience and plenty of healthful light and fresh air. Do not overlook the cozy side porch.



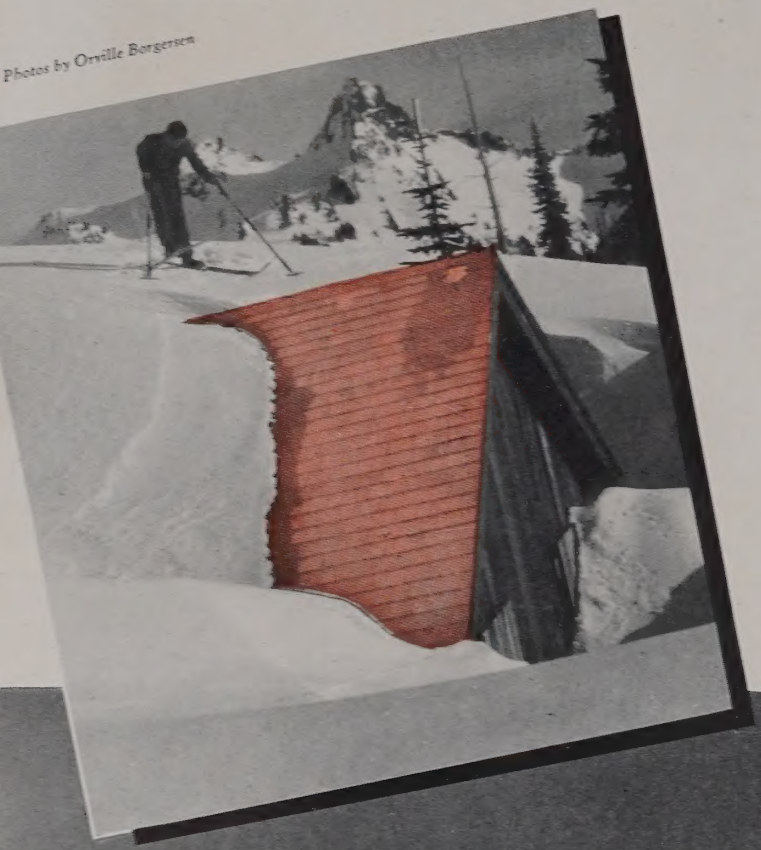
PLAN A—WITHOUT BASEMENT



PLAN B—WITH BASEMENT

Paradise Inn, on Mt. Rainier, in the depth of winter—almost buried by ice and snow. Tempestuous storms batter it all winter long. Spring thaws and rain literally soak it with water and summer suns beat down upon it with blistering heat. Built twenty-five years ago with roof and side-walls of Red Cedar Shingles, Rainier National Park officials state: "With the exception of a few minor repairs, not one cent has been spent on its exterior."

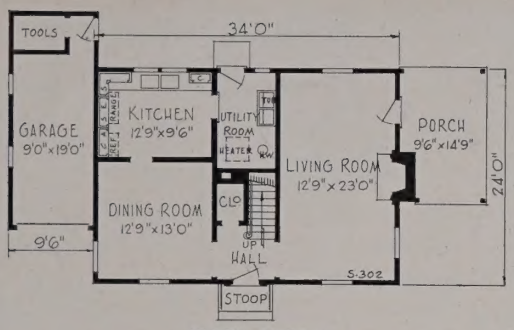
Photos by Orville Borgersen



DURABILITY UNDER ALL SORTS OF EXPOSURE IS CEDAR'S MOST IMPORTANT QUALITY

The United States Forest Service states: "*The most important commercial quality of Red Cedar is its great durability under all sorts of exposures.*" Chemical analyses have disclosed the presence in Red Cedar of several preservative oils highly toxic to wood-attacking fungi. This accounts, in great measure, for the high resistance to decay of Red Cedar Shingles. Wood gutters made of less durable wood have a greatly extended life when used in conjunction with a Red Cedar Shingle Roof.

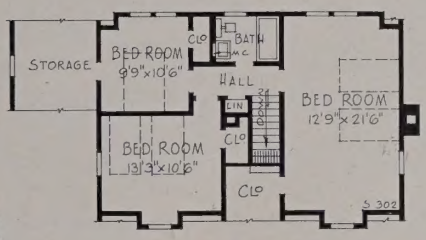
Testimony of this great durability is illustrated with these pictures portraying the terrific beating given Red Cedar Shingles in storm-ridden altitudes.



FIRST FLOOR

PLAN A—WITHOUT BASEMENT

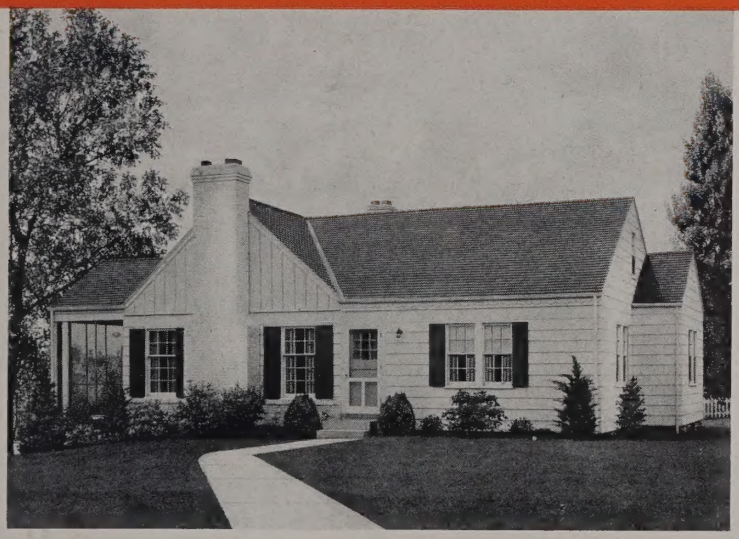
Illustrating where stairs to basement is located for Plan B.

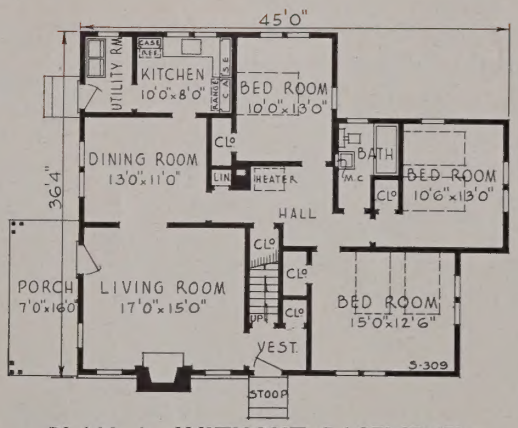


SECOND FLOOR

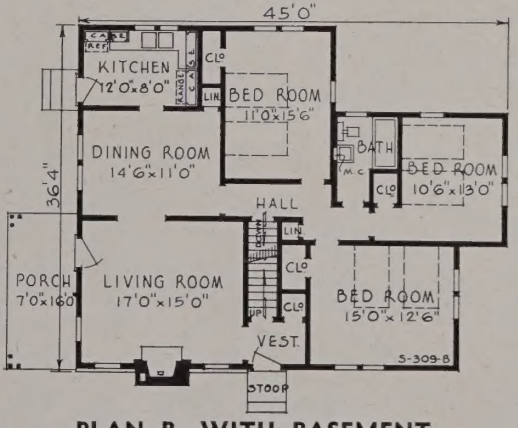
S—302 SIX ROOMS, BATH AND GARAGE

The pleasing exterior is designed in the simple yet effective, Colonial style. It is a home not only distinguished in appearance but commodious in arrangement, and containing all modern appointments. Homes of this type, because of the rectangular plan, are economical of construction and offer greatest building value.





PLAN A—WITHOUT BASEMENT



PLAN B—WITH BASEMENT

S—309 SIX ROOMS AND BATH

Bungalows are adaptable to all climates and are the last word in convenience. No other style of home, perhaps, lends itself so freely to the art and skill of the designer or permits such generous opportunities for simplicity and beauty in adornment.

BLUEPRINT PLANS for any of the designs illustrated in this book may be obtained through local retail lumber dealers from National Plan Service, Inc.

DOUBLE-COURSING OF SHINGLES ON EXTERIOR WALLS IS CHARMING

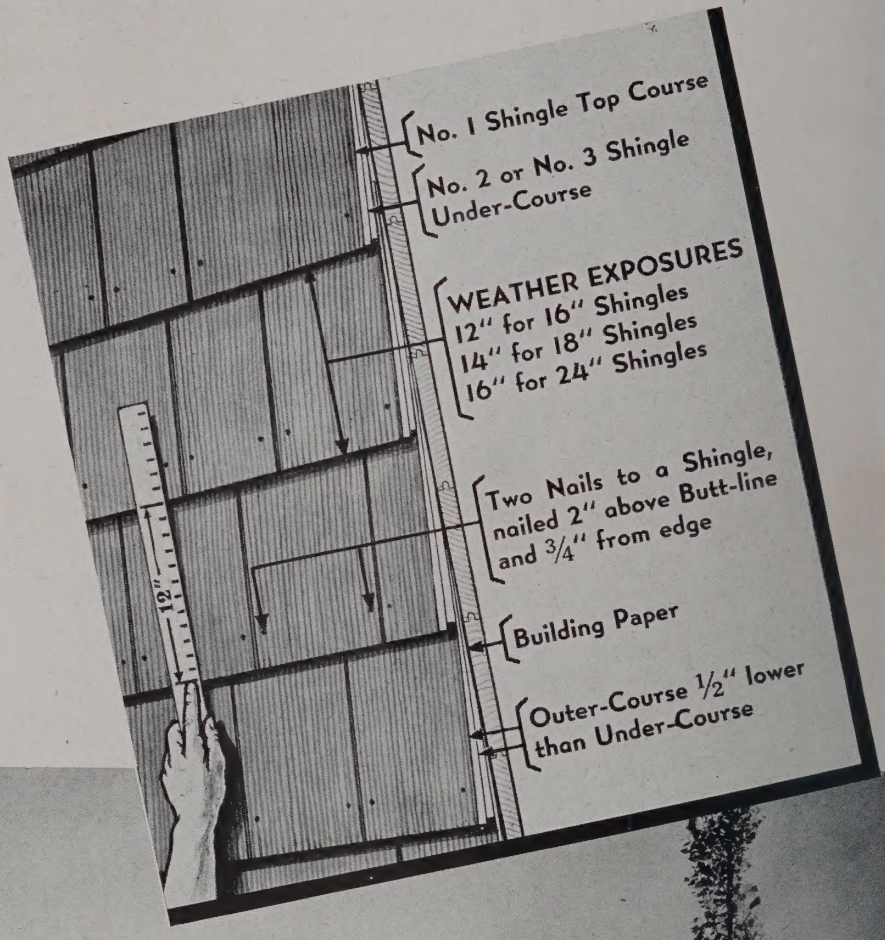
Gives double strength and insulation

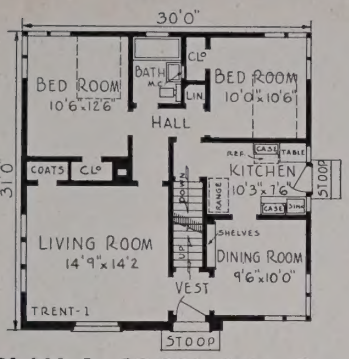
Engineering research has developed a method by which two layers of Cedar Shingles can be laid, one over the other, for building substantial side-walls — at no greater cost than single-coursing because of laying with wider weather exposure and use of No. 2 or No. 3 grades for the under layer.

★ ★ ★

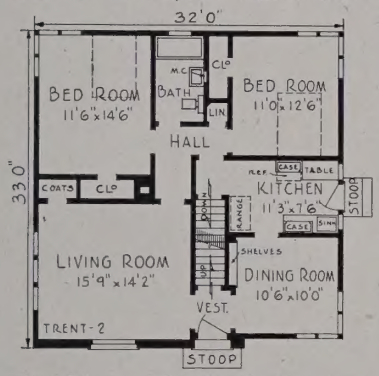
The attractiveness of double-coursing is due to the wider weather exposure and deep shadow lines provided by the over-lapping of the two butt ends of the shingles. These factors give the appearance of much more expensive material. Architects find that double-coursed Cedar Shingle side-walls fit the modern trend in home building and in combination with other materials are particularly adaptable for upper stories where insulation is an important factor.

The diagram of double-coursing shown below, when submitted to your architect or contractor, will immediately explain to him its practical application and merits.

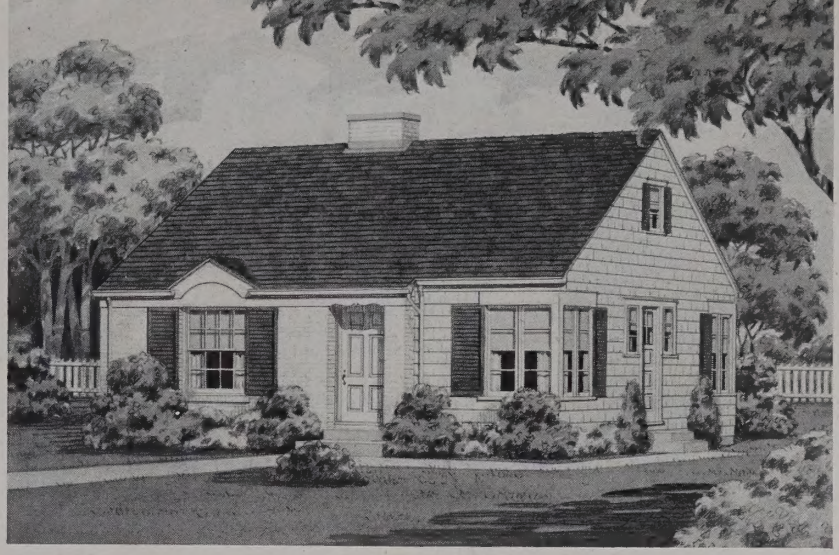

No. 1 Shingle Top Course
No. 2 or No. 3 Shingle Under-Course
WEATHER EXPOSURES
12" for 16" Shingles
14" for 18" Shingles
16" for 24" Shingles
Two Nails to a Shingle, nailed 2" above Butt-line and 3/4" from edge
Building Paper
Outer-Course 1/2" lower than Under-Course



PLAN 1—18,800 Cubic Feet

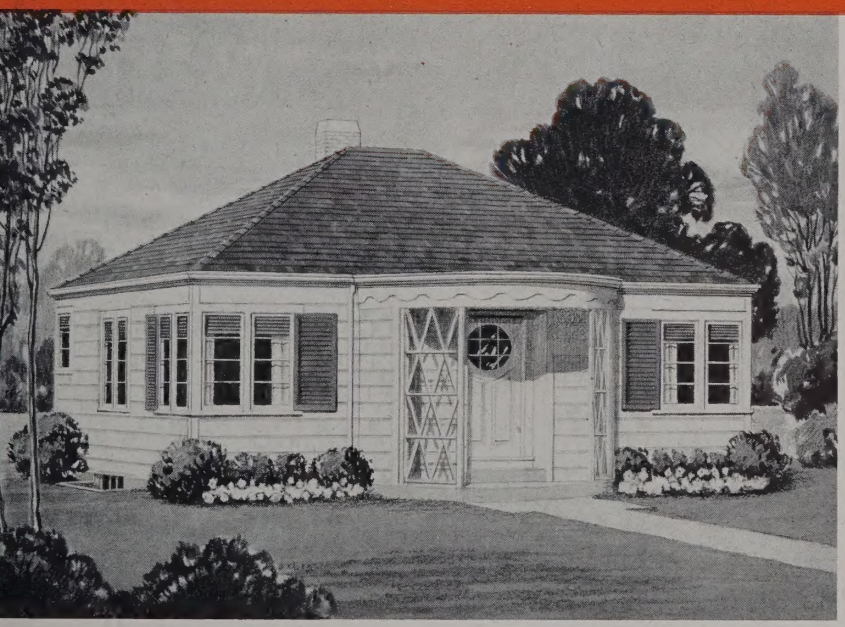


PLAN 2—22,850 Cubic Feet



THE TRENT

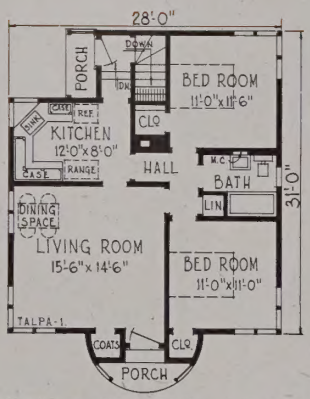
The above picture demonstrates that the small economical home can be just as attractive as the larger and expensive home. The floor plan shows five large rooms with stair to attic where future rooms can be installed.



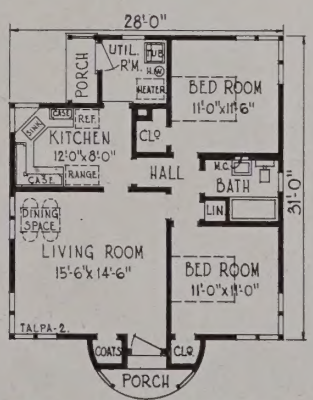
THE MEDINA

This distinctly modern home has the advantages of roominess, compactness and trim appearance. The dining space in the living room makes for five-room efficiency.

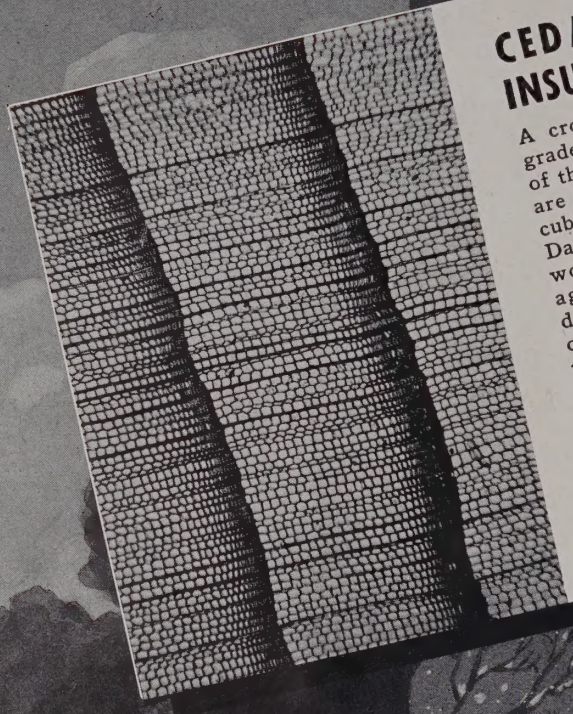
BLUEPRINT PLANS for any of the designs illustrated in this book may be obtained through local retail lumber dealers from National Plan Service, Inc.



PLAN 1—WITH BASEMENT, 15,500 Cubic Feet



PLAN 2—WITHOUT BASEMENT, 11,430 Cubic Ft.

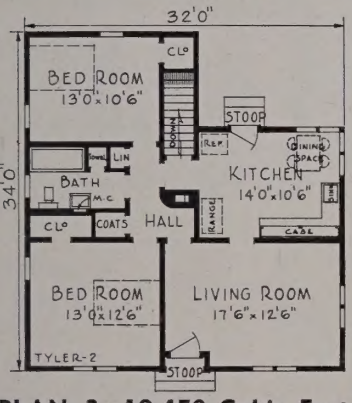


CEDAR SHINGLE INSULATING CELLS

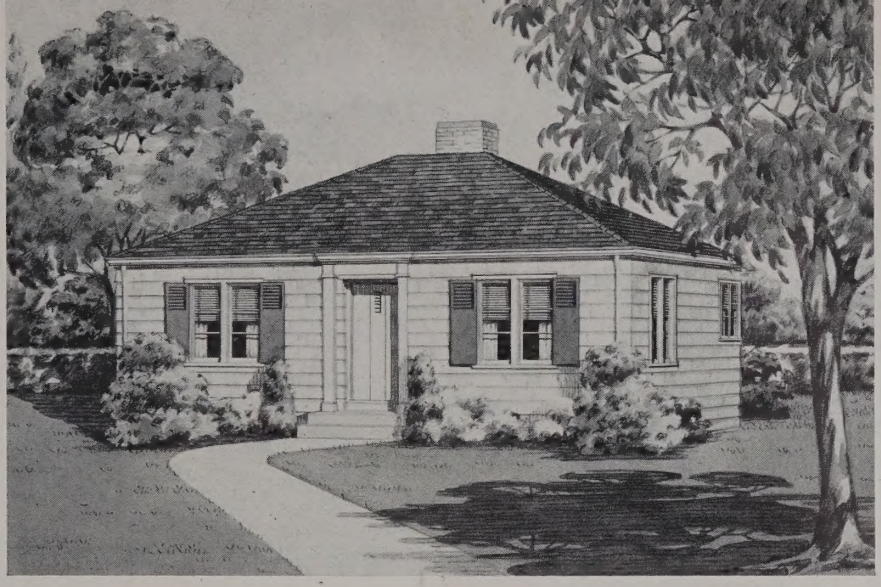
A cross section of a Certigrade Shingle showing a few of the insulating cells—there are several million in every cubic inch of Cedar wood. Dark horizontal lines are wood rays that reinforce against splitting. Vertical dark lines mark the limits of one annual ring, magnified 40 times.

A recent issue of *Agricultural Engineering* reports a test of all types of roofing material as follows: "Wood shingles on solid sheathing gave the best performance of any of the uninsulated roofs."

PLAN 1—15,750 Cubic Feet



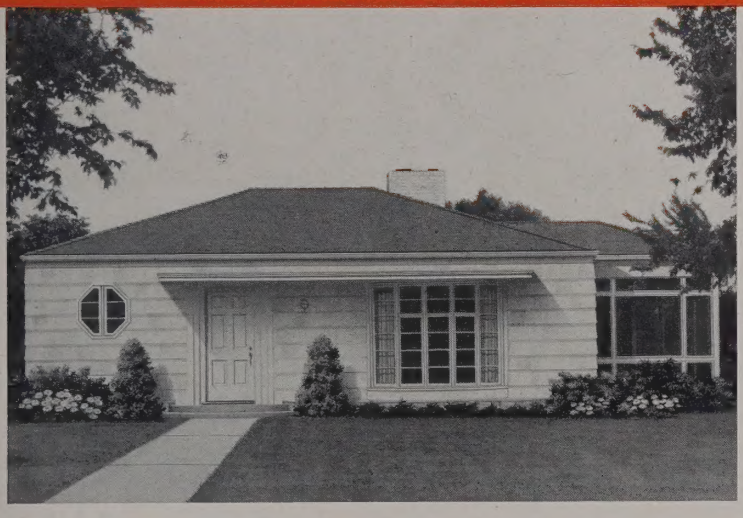
PLAN 2—19,450 Cubic Feet



THE BELROY

This well planned four room home offers the efficiency of five rooms. Moderate in cost, it is an ideal home for the small family. The interior is designed for practical convenience.

BLUEPRINT PLANS for any of the designs illustrated in this book may be obtained through local retail lumber dealers from National Plan Service, Inc.

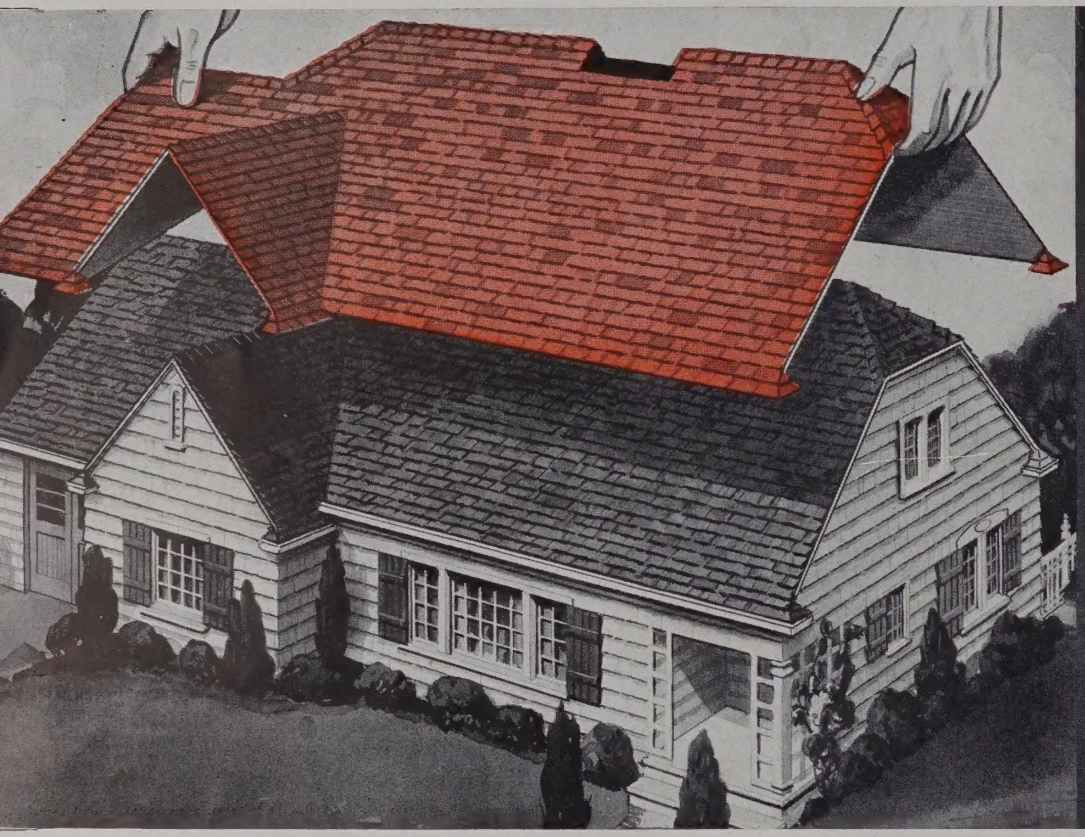


THE BELLEVUE

Keeping in pace with the trend of today, this modern home expresses a change from the traditional, possibly in the direction of more economy or distinct difference. The curved bay with its fine high sash, while providing a wealth of light for living room, forms the main feature of the front. Lowness of line is accomplished by the hood which forms the bay roof and sweeps across to give protection to the front entrance.

16,350 Cubic Feet

TO RE-ROOF NAIL NEW CEDAR SHINGLES RIGHT ON TOP OF THE OLD ROOFING



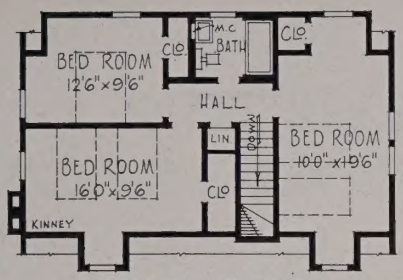
HAS MANY ADVANTAGES

Over-roofing eliminates the litter and dirt when the old roof is torn off and saves possible damage to shrubbery and interior furnishings, should rain intervene. Over-roofing is quite simple, but we will be glad to send you a free copy of our working blueprints on over-roofing which you can turn over to your contractor or carpenter.

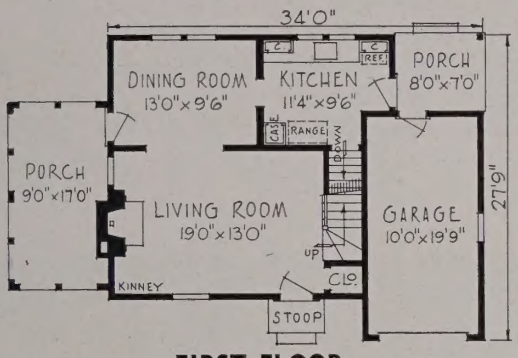
IN APPLYING NEW ROOFS, it is wasteful and unnecessary to strip off the old shingles. These should be left in place and covered with the new shingles. The result is double insulation against heat transmission with the consequent saving of fuel during cold weather. Moreover, this double roof is considerably stronger than the old shingle roof so that a heavier snow load can be carried. This added strength is the result of increasing thickness of the roof which is accomplished by the increased "bridging" effect in the shingles. Other roofing materials are surfacing materials only and impose a dead load on the roof with no compensating increase in strength.

THE EASY WAY TO REMODEL

RED CEDAR SHINGLES offer the best solution for remodeling at minimum cost. They are easy to apply regardless of the nature of the existing outer walls. They give the appearance of a new and modern building and fit nearly all types of architectural design. One of the most attractive remodeling jobs is effected by covering the sidewalls with double-coursed Red Cedar Shingles (see Page 8 for explanation of double-coursing). The low cost and attractive result of modernizing with Red Cedar Shingles is of real interest to those who own an old house to rent, to sell or continue to occupy.

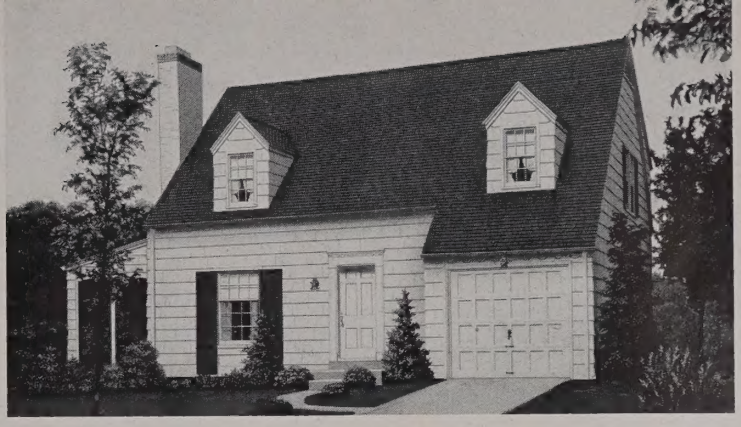


SECOND FLOOR



FIRST FLOOR

19,865 Cubic Feet

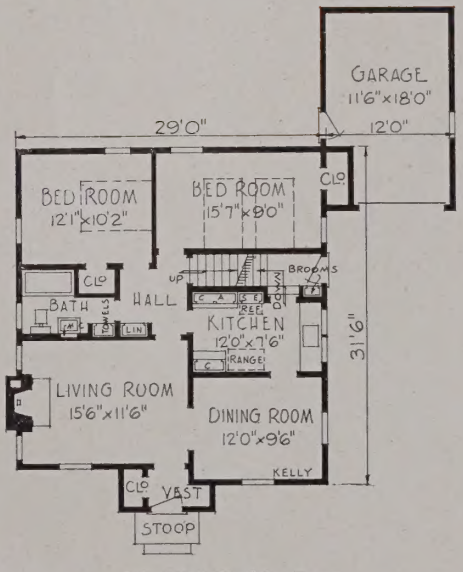


THE KINNEY

A home of elegance, which depends for its successful execution upon the excellence of its proportion and the refinement of its detail. The plan contains all the elements of a really fine house. A wide side porch is provided which may be screened for summer use, or glazed for use as a sun parlor. The second floor is compactly arranged to give three good sized cross ventilated bedrooms and without unnecessary waste of space for hall.

THE KELLY

For those who desire a compact one story house, this little five room home should admirably suit all their needs. Shingled side walls, with a skillful use of vertical siding in the front gable substantiates the use of wood for greater picturesqueness. The floor plan presents a variation from the usual, with the side entrance to the kitchen conveniently located to the garage.



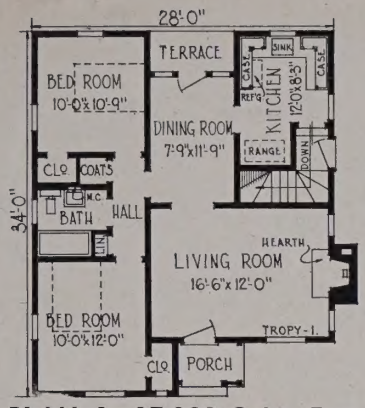
22,170 Cubic Feet

BLUEPRINT PLANS for any of the designs illustrated in this book may be obtained through local retail lumber dealers from National Plan Service, Inc.

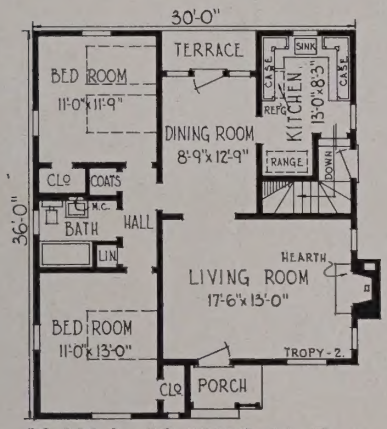
FARM BUILDINGS HAVE BEEN PROTECTED FOR MANY DECADES WITH GENUINE RED CEDAR SHINGLES

Probably nothing testifies so strongly to the care-free, life-time service of Red Cedar Shingles as their record of protection given to farm buildings.

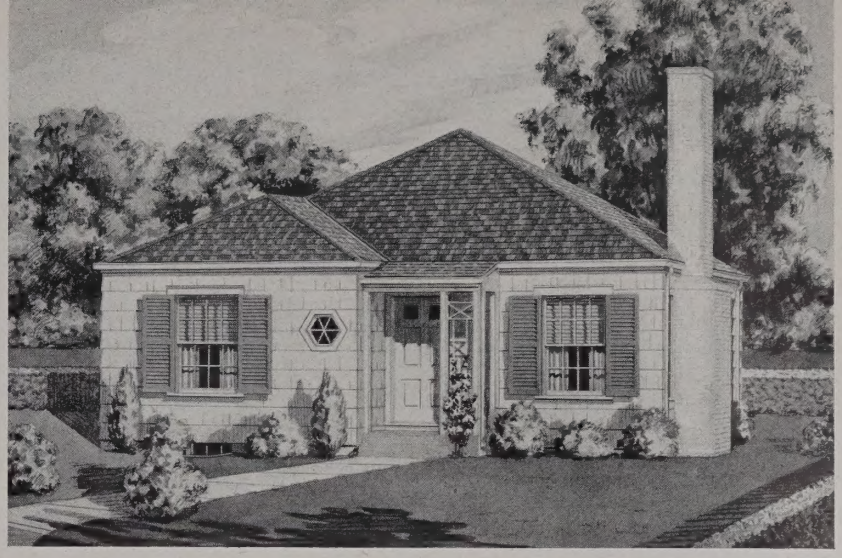
Dairy and stock farmers in particular are aware of the importance of good buildings, for during the cold of winter and heat of summer, animals use up much energy in balancing body heat losses, which energy is better conserved producing milk and flesh. Barns, poultry houses, and other farm buildings are best protected from hail and wind storms and better insulated against transmission of heat and cold with Certigrade Red Cedar Shingles than with any other roofing material. Agricultural experts, after many tests, agree on the superiority of Red Cedar Shingles over other types of material.



PLAN 1—17,100 Cubic Feet



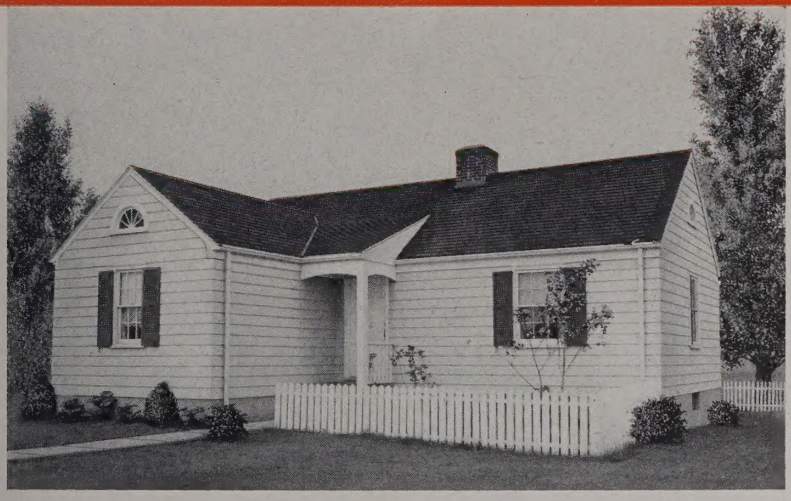
PLAN 2—19,480 Cubic Feet



THE TROPY

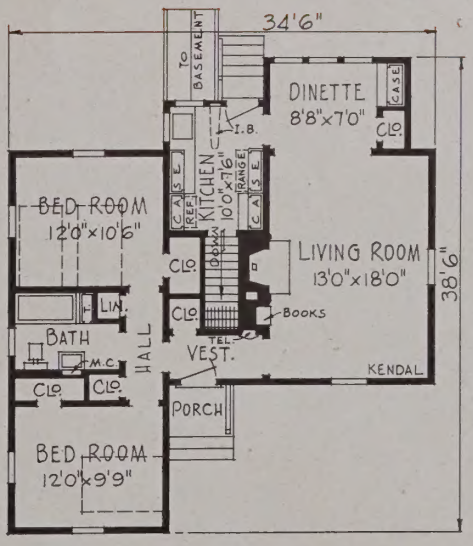
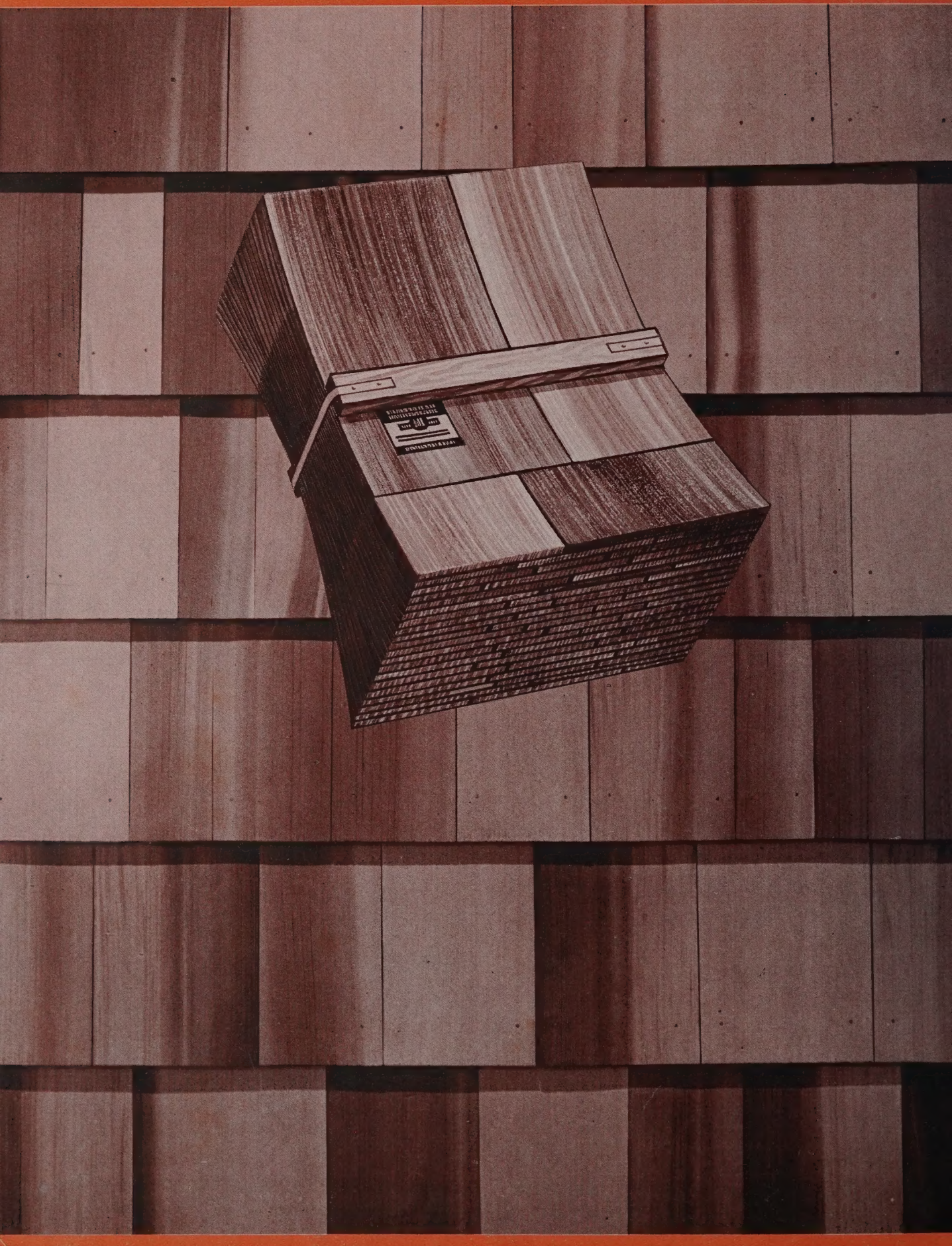
In this day and age when the inventive faculty is taxed to the utmost and the past has been tapped thoroughly, things distinctive are hard to find. The above home is unique, distinctive and pleasing with a definite dignity preserved.

BLUEPRINT PLANS for any of the designs illustrated in this book may be obtained through local retail lumber dealers from National Plan Service, Inc.



THE KENDAL

The ownership of this cottage would not only be completely satisfying, but also be a monument to practical family achievement. Approaching the house, one finds a wealth of welcome offered in the charming little entrance doorway. The suggested front garden treatment with the low white fence and the shuttered windows all help to reflect the pride of the owner, and at the same time help make this home an asset to any community.



16,150 Cubic Feet